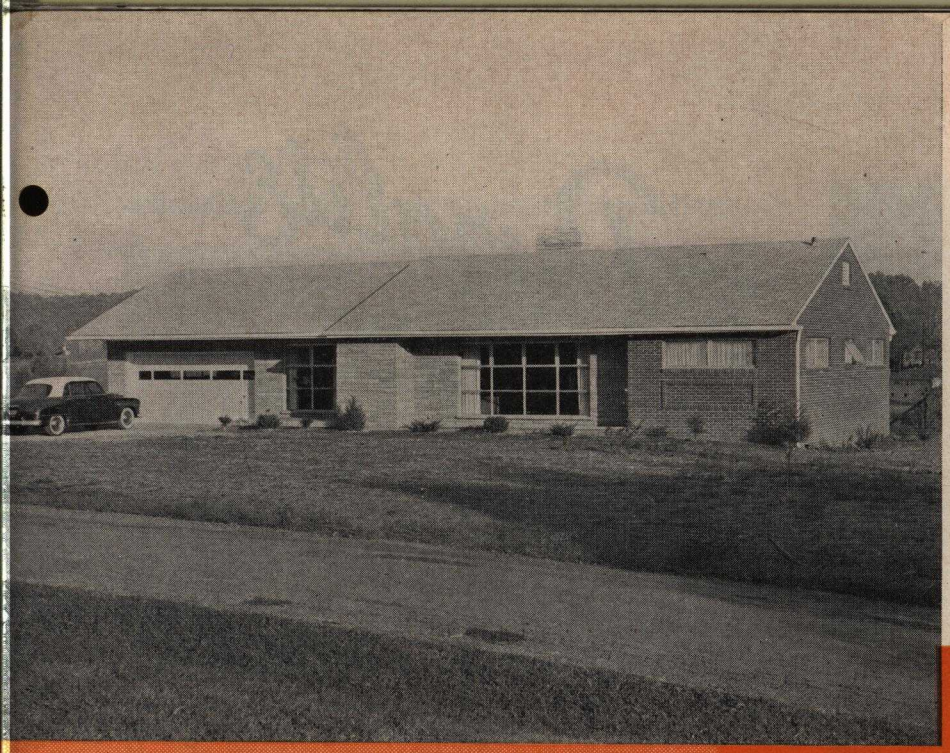


aluminum vista-walls

ALUMINUM HOME PRODUCTS COMPANY

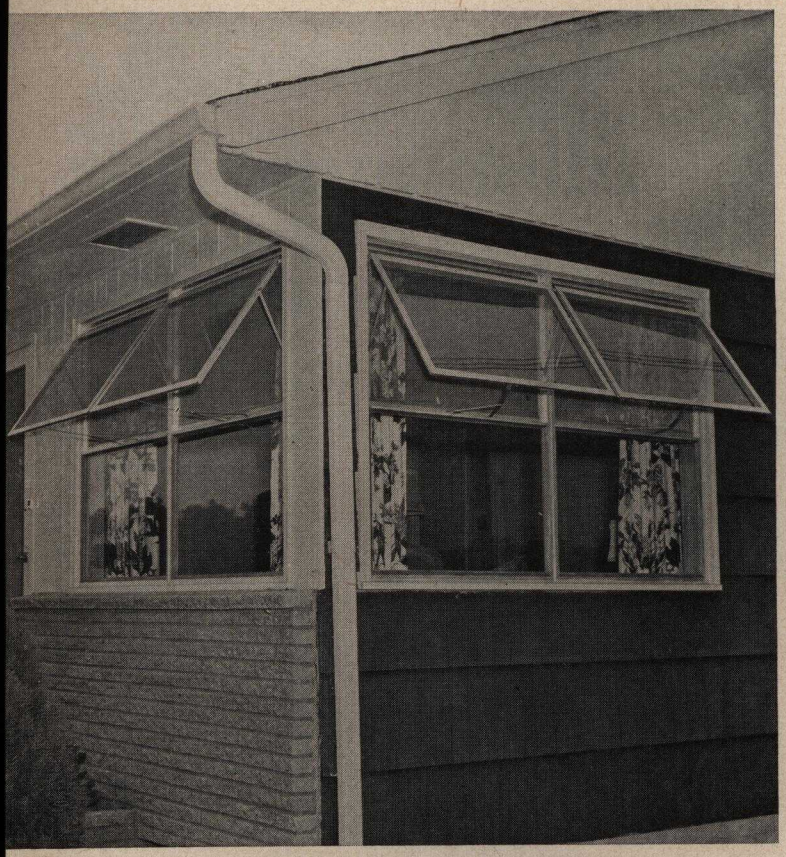
Knoxville • Tennessee

Duralite

sold by dealers from coast to coast

aluminum casement windows

Duralite Aluminum Vista-Walls



Above *is shown a typical installation of Duralite Vista-Walls. Installation was achieved by use of single width units and standard mullions.*

two complete series — *allowing many combinations*

Vista-Walls are manufactured in two complete series of sizes, thus allowing complete flexibility of window area in any conceivable combination of lights from a single unit, to be installed at shoulder height, for bedroom privacy and freedom of furniture arrangement . . . to the floor-to-ceiling window wall so popular in America's newest and finest homes.

tomorrow's windows — *today*

Vista-Walls fully meet the need for windows in the contemporary, functional, and modernistic architectural trend homes. The thin, clean lines of Vista-Walls afford almost unobstructed vision of natural, surrounding beauty, thus creating an illusion of bringing the outside in.

compare these features:

- Feather touch, roto-gear operated ventilators.
- Concealed, counter-balanced hinges.
- Flat, rolled frame aluminum screens.
- Complete flexibility of amount and placement of ventilation.
- Any conceivable combination of lights may be assembled by the use of standard mullions.
- Made from sturdy, extruded aluminum sections, electronically flash-welded, resulting in permanent beauty and many years of maintenance-free service.
- May be adapted for glazing with insulated glass, if desired.

With the present architectural trend toward large, picture windows, the manufacturers of Duralite Casement Windows have designed two complete series of Aluminum Vista-Walls. From the basic idea of complete flexibility of ventilation and window size has evolved a Panel Window System which allows the contractor or builder to obtain any desired combination.

Vista-Walls include very attractive, rolled frame screens made of aluminum. Vista-Walls incorporate the very finest hardware available. A very sturdy length of spring steel is used to actuate your ventilating units.

The use of Vista-Walls as strip windows, set "shoulder height," allows furniture placement in any portion of the room, without interfering with window arrangement. Shoulder-height windows provide complete privacy when desired, while giving adequate light and ventilation.

Vista-Walls, manufactured from sturdy solid extruded aluminum, require no painting. They will not rot, corrode, warp, shrink, or swell. They require a minimum of maintenance or upkeep.

Vista-Walls are designed for optional use of insulated glass. A specially designed aluminum glazing strip is used in ventilators in which the use of insulated glass is desired. This glazing strip, besides being very attractive, gives added strength and sturdiness to the ventilating unit.

Vista-Wall units are joined to create large expanses of window by the use of a very attractive fluted mullion. Vista-Walls are manufactured of aluminum sections which, although very sturdy, present a very pleasing thin line effect. Unlike panel windows of other materials, this results in the maximum of light per square foot of window area.

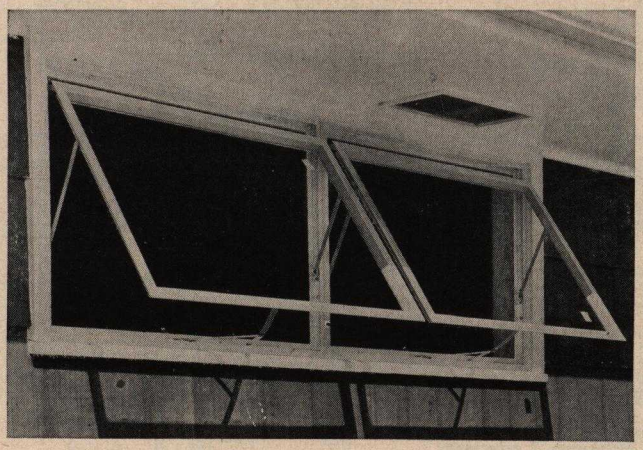
Vista-Walls are perfect for closing-in breeze ways and porches, since they allow complete summer ventilation as well as winter comfort. Vista-Walls allow complete ventilation, a feature impossible in many other types of windows. Even in a blowing rain there is some degree of ventilation. The very attractive, feather touch hardware used on Vista-Walls allows easy operation of ventilating units, without the necessity for unfastening screen, raising blinds, etc.

The neutral color of Vista-Walls blends exceptionally well with any exterior or interior color scheme. Vista-Walls may be obtained in special sizes, if desired. Vista-Walls may be ordered with the muntins omitted from the fixed sections, to accommodate larger sized picture windows. Vista-Walls may be used in conjunction with large fixed picture windows to produce the increasingly popular picture window with ventilated flankers.

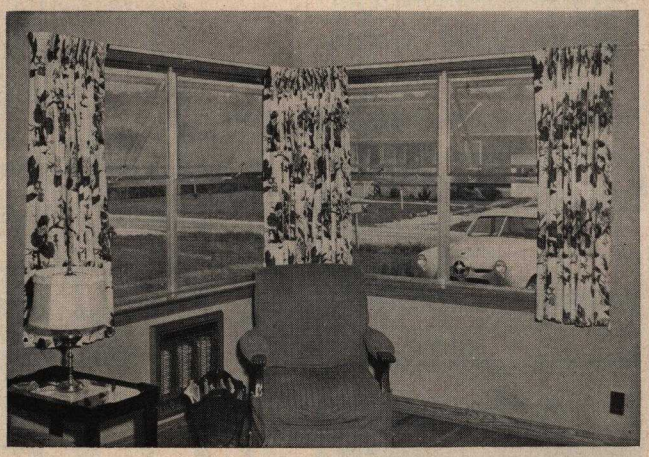
TCAT
Aluminum
1955

ocn922886135
10/5/15

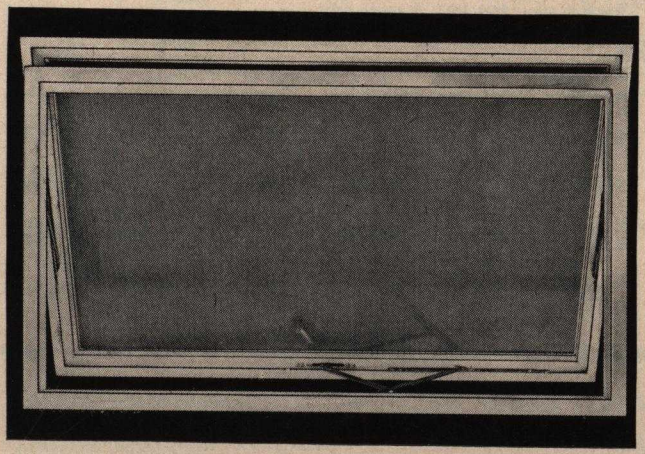
adaptable to any design condition



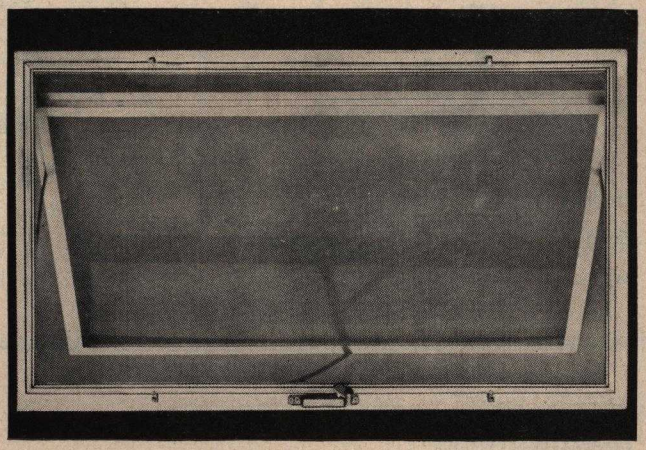
exterior — *Shown above are two single units, mullioned together to form a unit of the increasingly-popular ribbon type of installation, for bedrooms, dens, and applications where privacy and furniture placement are important factors.*



interior — *Shown above is an interior view of the Vista-Wall combination shown on the opposite page. Note high placement of ventilation which permits flexible furniture arrangement for the full advantage of large glass areas.*

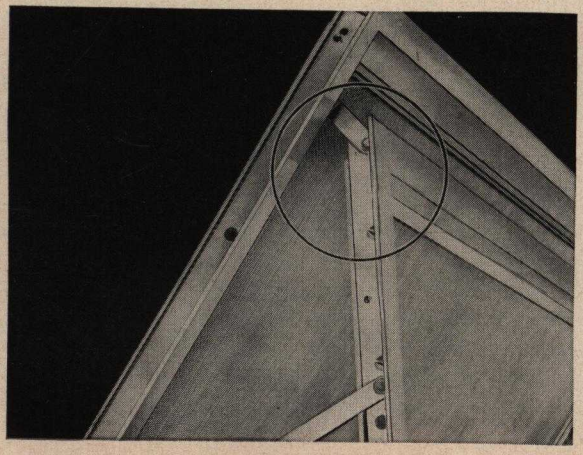


ventilators — *Illustrated is a close-up of the ventilator in a semi-opened position. An underscreen roto-gear operator actuates a sturdy spring steel arm, and the ventilator travels on counter-balanced, concealed hinges, for smooth, easy operation.*

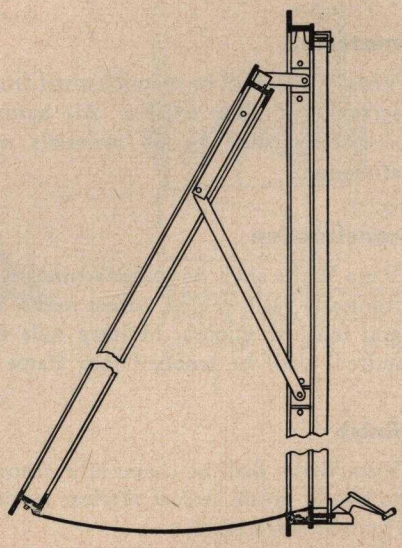


screens — *This interior view shows the rolled frame screen mounted with adjustable clips. Screens need not be removed, except for cleaning, and may be removed or mounted in a matter of seconds.*

counter-balanced concealed hinges



Shown at left is a close-up of the counter-balanced, concealed hinge, which, in combination with the roto-gear operator, results in complete, satin-smooth control of ventilation. A cross-section view of a ventilator, with hardware at the open position, is shown at right.

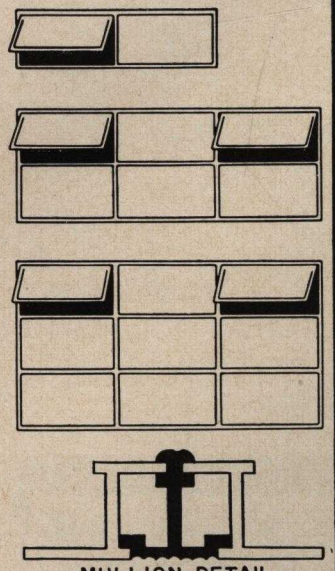


Vista-Walls . . .

aluminum panel window system

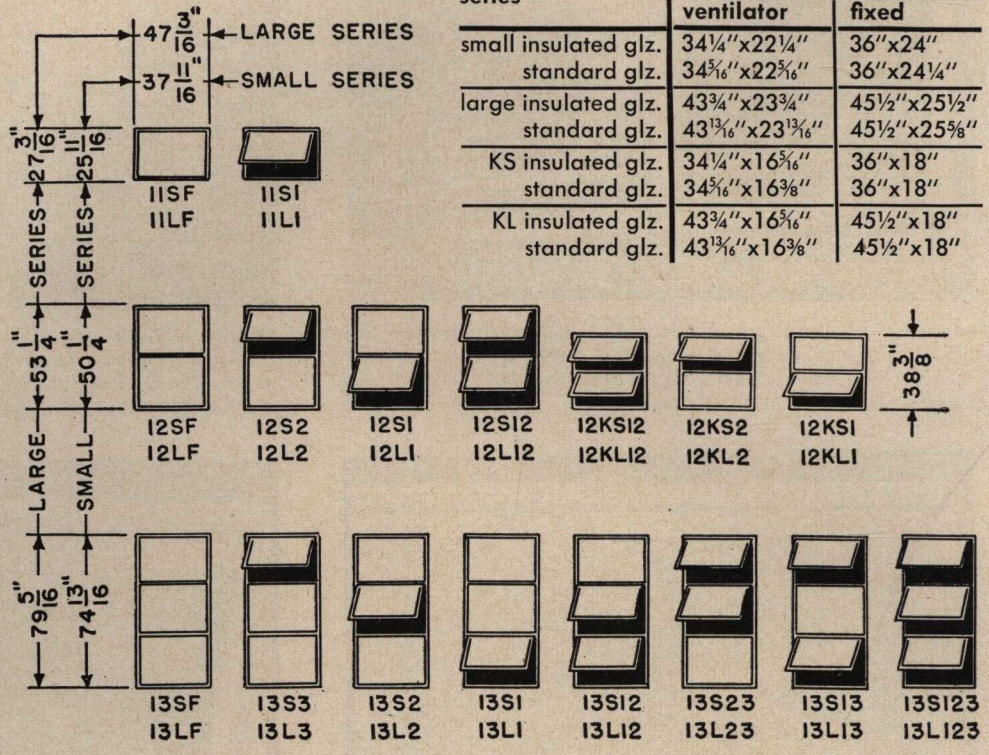
types and sizes

suggested combinations



In determining overall widths of panel window combinations, add 1/8" for each mullion.

sizes



series	glass sizes, inches	
	ventilator	fixed
small insulated glz.	34¼"x22¼"	36"x24"
standard glz.	34⁵⁄₁₆"x22⁵⁄₁₆"	36"x24¼"
large insulated glz.	43¾"x23¾"	45½"x25½"
standard glz.	43¹³⁄₁₆"x23¹³⁄₁₆"	45½"x25⅝"
KS insulated glz.	34¼"x16⁵⁄₁₆"	36"x18"
standard glz.	34⁵⁄₁₆"x16⅜"	36"x18"
KL insulated glz.	43¾"x16⁵⁄₁₆"	45½"x18"
standard glz.	43¹³⁄₁₆"x16⅜"	45½"x18"

specifications

general

Duralite Vista-Walls, as manufactured by Aluminum Home Products Company, Knoxville, Tennessee, shall be manufactured to the following specifications:

material

Vista-Walls shall be manufactured from extruded aluminum sections, of alloy 63ST-5. All hardware, fastenings, and accessories shall be of materials suitable for use with aluminum.

construction

Vista-Walls shall be manufactured with mitered, and electronically flash-welded, corner joints. Welds shall be cleaned and finished smooth. Meeting rails or muntins, where required, shall be tenoned into frame sections and swaged.

finish

Vista-Walls shall be chemically cleaned and shall be etched to a satin finish. A coat of clear lacquer shall be applied to exposed surfaces.

hardware

Hardware shall be of roto-gear or lever-type, underscreen mounted, operated through the sill section or meeting rail. Counter-balanced, concealed hinges shall be used, unless otherwise specified. Hardware shall be finished to match the window. Above types of hardware are at the buyer's option.

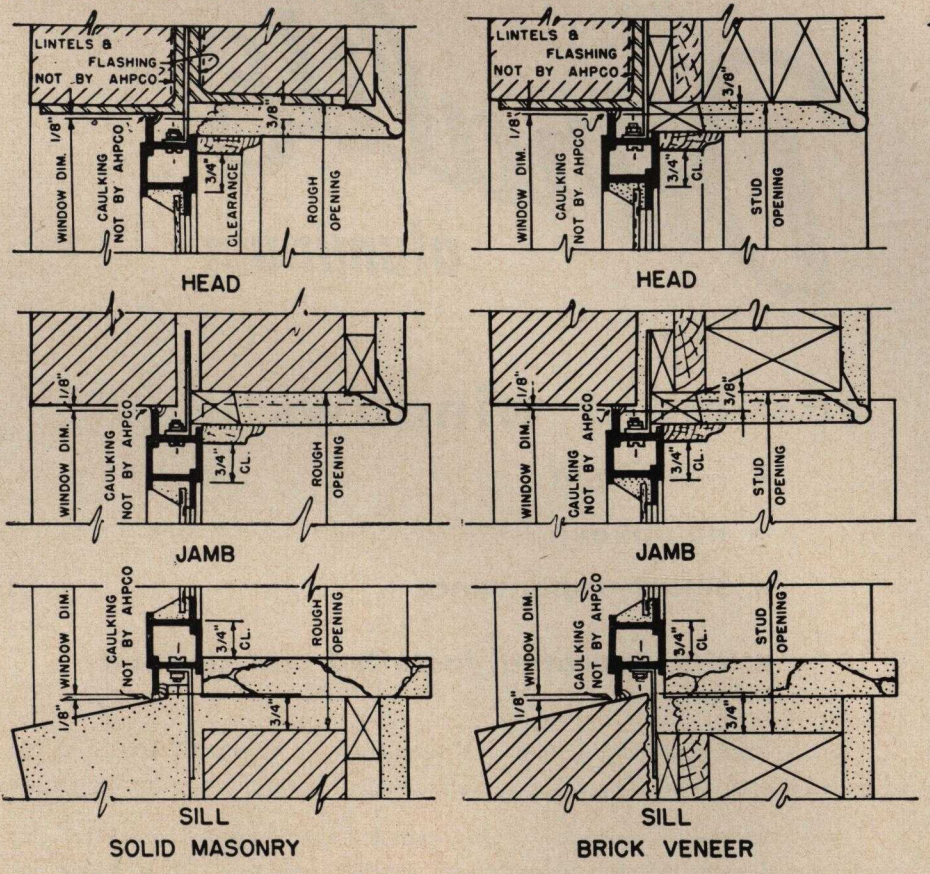
screens

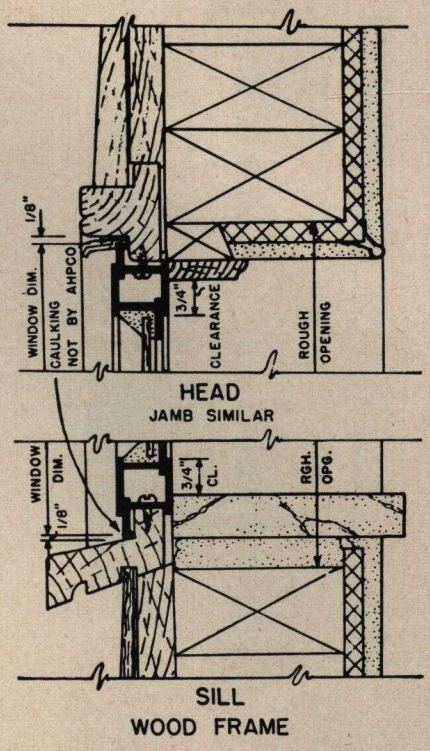
Screens shall be of the flat, rolled type, and shall be mounted with adjustable clips and screws. Aluminum wire of the proper mesh shall be used. All material used in screens and fastenings shall be aluminum.

erection and glazing

Since the erection and glazing of Duralite Aluminum Vista-Walls shall be the function of the buyer or his agents, the manufacturer has no control over the installation methods, but stands ready at all times to provide necessary instructions and advice for the best results from the use of the product. It is suggested that all materials used for erection and glazing shall be of a type suitable for use with aluminum windows and should contain no chemicals harmful to aluminum.

installation details scale 3" = 1' — 0" except as noted





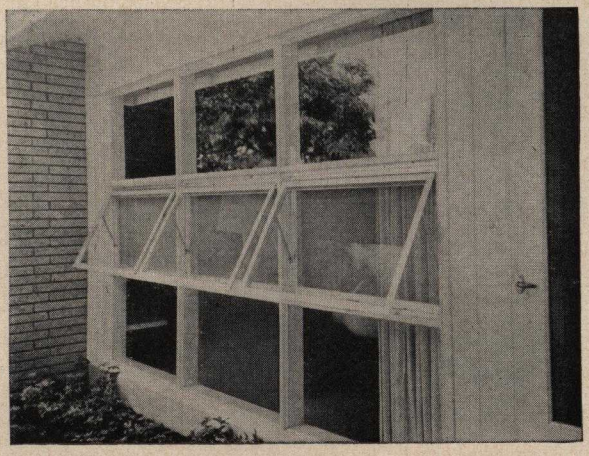
Full size tracing details available on request.

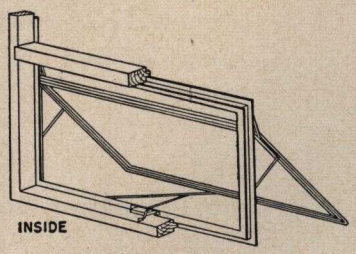
aluminum ventilator sash for wood frames

Duralite Aluminum Ventilator Sash is manufactured in standard sizes for use in rabbetted wood frames, available from most millwork manufacturers. At right and below are cross-sections and a typical installation of these ventilators in wood frames. Typical sizes are:

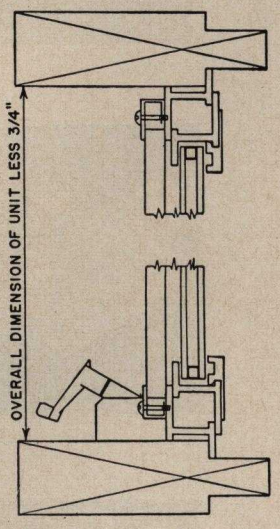
45¾" x 25¾" — Glass Size 42½" x 22½"
36¼" x 24¼" — Glass Size 33" x 21"

Special glazing bead is available, when insulated glazing is desired. Glazing bead is shown in cross-section at right. Special sizes are available, and prices will be furnished upon request.





Isometric view *of installation in wood frame.*



Cross-section *of ventilator, showing installation in rabbetted 2" x 6" wood frame.*

Duralite aluminum

casement windows

- **more light**
- **no upkeep**
- **smart appearance**

easily operated, installed and cleaned

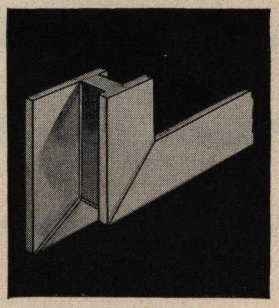
Duralite Casements afford light and ventilation up to almost 100% of the window opening, making for more comfortable, healthful living.

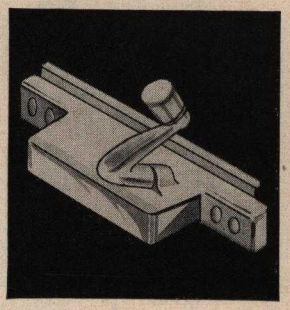
Duralite Casements are built of sturdy, extruded aluminum sections, of an alloy developed especially for strength and weather resistance. Their bright yet neutral color blends well with any interior or exterior color scheme.

Duralite Casements require a minimum of maintenance and upkeep. They are designed and manufactured to last a house-time.

Duralite Casements are equipped with roto-gear, underscreen operators, and die-cast latches, affording feather-touch control of ventilation.

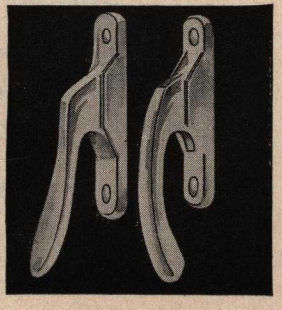
Duralite Casements may be easily and economically installed in any type of construction.





sturdy construction and smart design

Duralite Casements are manufactured with smooth, almost invisible flash-welded joints. They are manufactured from extruded sections, which, though massive enough for more than ample strength, form thin, clean lines, blending with any type architecture.



harmonizing Duralite accessories

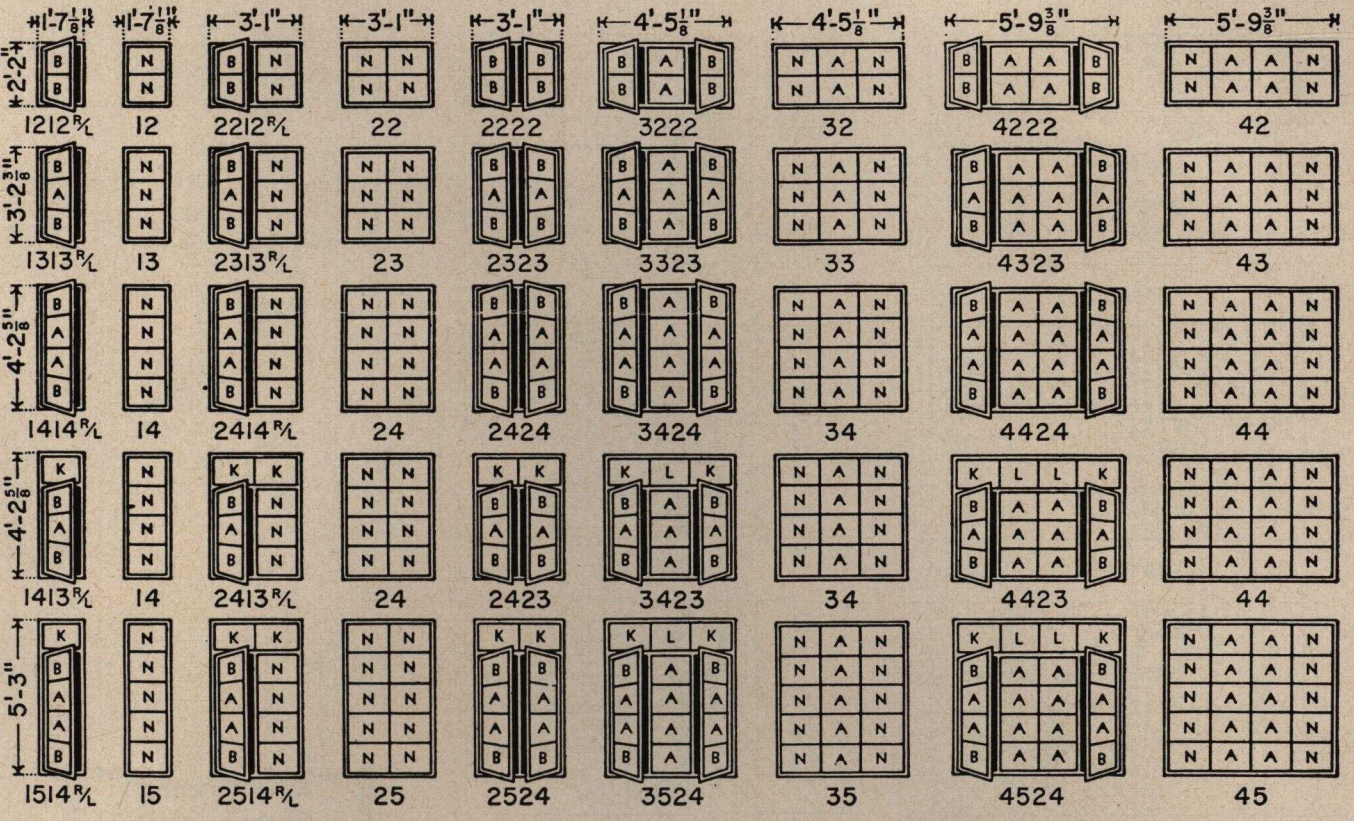
aluminum screens

Matching Aluminum Screens, of the rolled frame type, are available for use with Duralite Casements. They are attached with adjustable clips and screws.

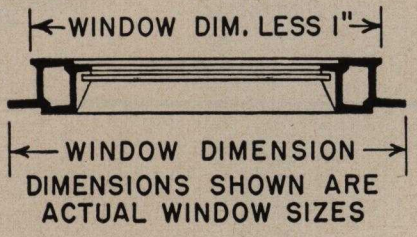
storm sash and weatherstrip

For added weather protection, storm sash and weatherstrip are available for standard and special size Duralite Casements.

wide choice of types and sizes



series	glass sizes, in wide	high
A	16	12
B	16	11 5/16
K	17¼	11⅝
L	16	11⅝
N	17¼	12



DIMENSIONS SHOWN ARE ACTUAL WINDOW SIZES

QUALITY APPROVED

C-A1

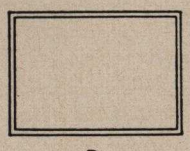
A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by PITTSBURGH TESTING LABORATORY.

MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION

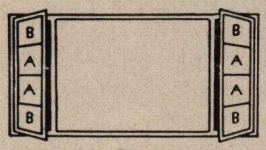
Duralite picture windows

Below are shown three basic styles of picture windows. These styles may be modified as to size of picture panel and the amount and placement of ventilation.

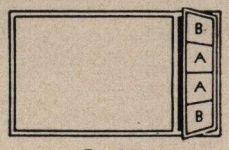
We are set up to render excellent service on sash of this type.



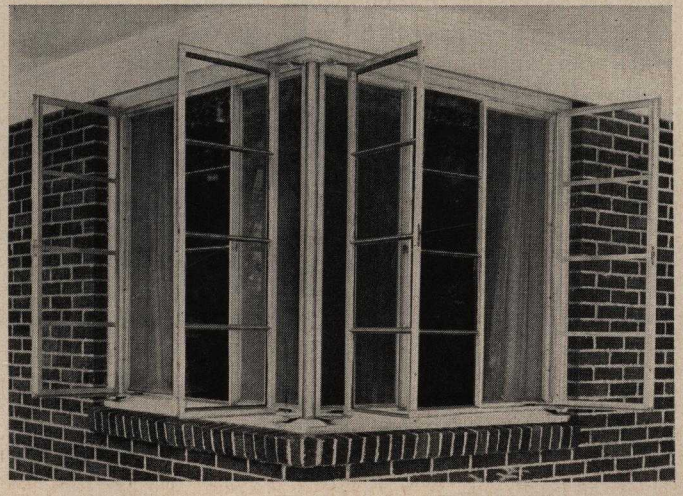
P



V-P-V

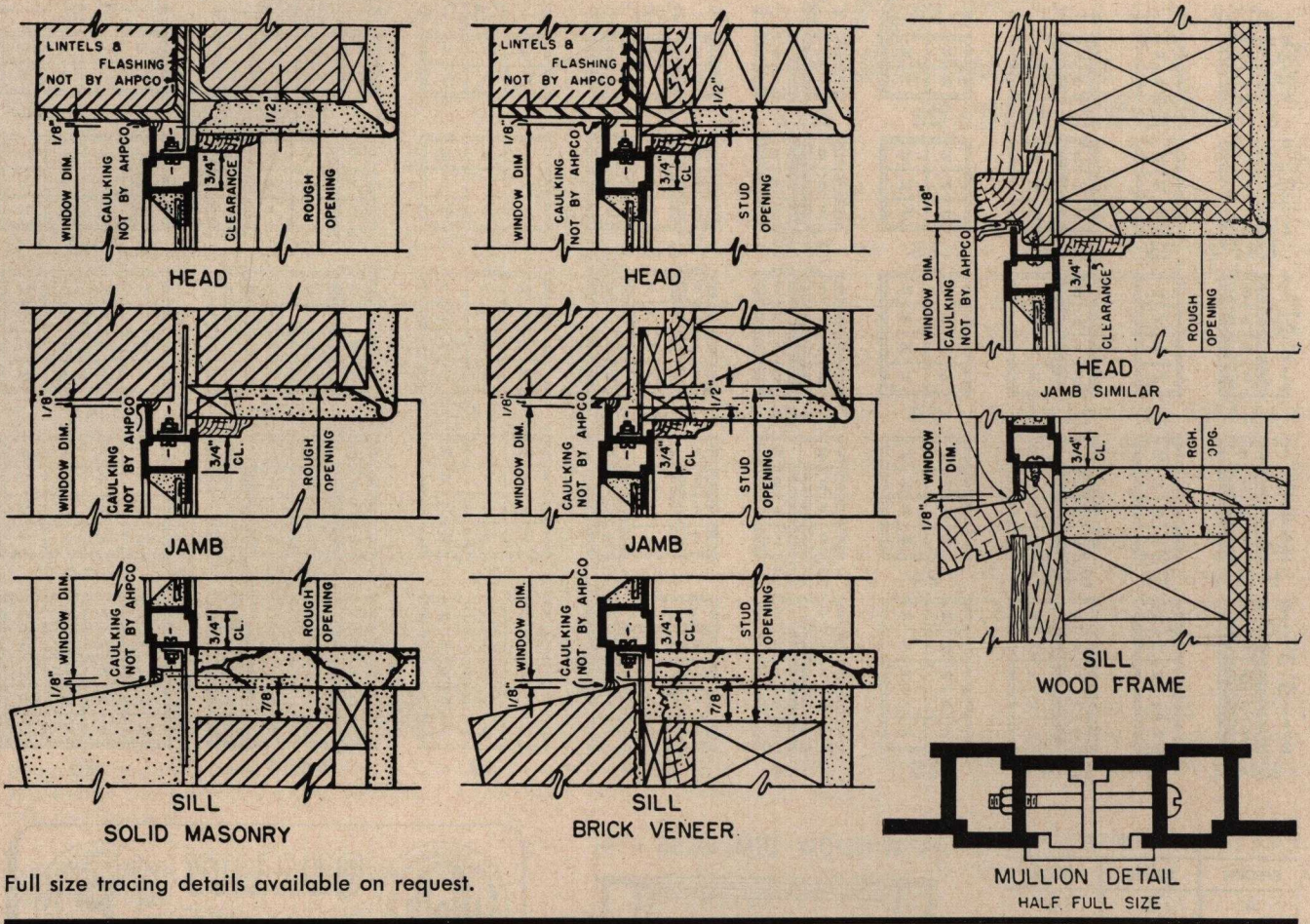


P-V



Duralite® aluminum casement windows

installation details scale 3" = 1' — 0" except as noted



Full size tracing details available on request.

specifications

general

Types and sizes shown herein shall be manufactured by Aluminum Home Products Company of Knoxville, Tennessee, to specifications as follows:

material

Duralite Aluminum Casement Windows shall be fabricated from solid extruded aluminum sections, frame and ventilator members to have a minimum nominal thickness of 1/8". Major sections used shall be of 1" depth. All Duralite Aluminum Casement Windows shall be fabricated from alloy 63ST-5, or its equivalent.

construction

All corners shall be mitered and electrically flash-welded. Welds shall be cleaned and shall be free from discoloration. Muntin bars shall be tenoned into frame and ventilator members and shall be firmly attached at cross joints. Side hinged ventilators shall be hung on self-cleaning extension hinges. Hinges shall be securely attached to the frame and ventilator. Drip caps shall be furnished to fit at the top of all ventilators.

finish

Duralite Aluminum Casement Windows shall be chemically cleaned and shall be etched to a satin finish. A coat of clear lacquer shall be applied to exposed surfaces.

hardware

Hardware for adjusting the ventilators shall be of the roto-gear, underscreen type. Locking handles shall be furnished for locking the ventilators in the closed position. All hardware shall be finished to match the windows. Other types of hardware may be specified.

screens

Aluminum Screens, made from rolled sections and approved mesh aluminum wire, complete with attaching clips, are obtainable from Aluminum Home Products Company or their dealers.

storm sash

Storm sash of extruded or rolled aluminum shapes, interchangeable with screens, are obtainable either glazed or unglazed. Storm sash shall be complete with heavy duty mounting clips.

weatherstrips

Special alloy spring-tension weatherstrips for all sizes of Duralite Casement Windows are obtainable from Aluminum Home Products Company or their dealers.

ALUMINUM HOME PRODUCTS COMPANY

Member • Aluminum Window Manufacturers Association

Carr Street and Southern Ry. • Knoxville, Tennessee

QUALITY APPROVED
C-A1
A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by Performance Testing Laboratories
MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION